

CARTER et al.
Serial No. 10/719,066
Attorney Dkt. No. 44472-306195

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A stent, comprising:
a body with a predetermined length defining a longitudinal axis and two ends;
a plurality of smooth-surfaced wings angularly spaced around the body and extending radially outwardly from the body and extending longitudinally along substantially the entire length thereof, wherein channels are formed between adjacent wings, each channel extending substantially the entire length of the body and defining a fluid flow passage;
at least two securement barbs, at least one disposed at each end of the body, each barb having a barb root and a barb tip, the barb root securing the securement barb to the body, the securement barb extending generally radially outwardly from the body in cantilevered fashion from the barb root to the barb tip, the securement barb being angled relative to the longitudinal axis with the barb root being located nearer to the end of the body than the barb tip; and
~~at least one~~ a conically tapered tip portion disposed at an each end of the body and distal to each barb.
2. (Currently Amended) The stent according to claim 1, wherein each of the at least one two securement ~~barb comprises two securement barbs, each extending~~ barbs extend radially outwardly from each end of the body such that the tips of each of the securement barbs are located nearer to a center of the body than the barb roots.
3. (Currently Amended) The stent according to claim 1, wherein each of the at least one two securement ~~barb~~ barbs is disposed at a barb angle equal to or less than 90° relative to the longitudinal axis of the body.
4. (Original) The stent according to claim 3, wherein the barb angle is equal to or less than about 75°.

CARTER et al.
Serial No. 10/719,066
Attorney Dkt. No. 44472-306195

5. (Original) The stent according to claim 4, wherein the angle is about 65°.
6. (Original) The stent according to claim 3, wherein the angle is between 60° to 90°, inclusive.
7. - 9. (Canceled)
10. (Currently Amended) The stent according to ~~claim 9~~ claim 1, wherein each of the at least one two securement ~~barb comprises two securement barbs, each extending~~ barbs extend from a respective conically tapered tip portion.
11. (Currently Amended) The stent according to ~~claim 7~~ claim 1, wherein each of the conically tapered tip ~~portion extends~~ tip portions extend from a transition region on the body, the transition region being located where the radial height of the wings decreases toward the end thereof.
12. (Original) The stent according to claim 1, wherein the wings are disposed substantially parallel to one another.
13. (Original) The stent according to claim 12, wherein there are three or more wings.
14. (Original) The stent according to claim 12, wherein there are six wings.
15. (Original) The stent according to claim 12, wherein the wings extend linearly along the body.
16. (Original) The stent according to claim 12, wherein the wings extend helically along the body.

CARTER et al.
Serial No. 10/719,066
Attorney Dkt. No. 44472-306195

17. (Currently Amended) A stent, comprising:

a body with a predetermined length defining a longitudinal axis and two ends;

a plurality of smooth-surfaced wings angularly spaced around the body and extending radially outwardly from the body and extending longitudinally along substantially the entire length thereof, wherein channels are formed between adjacent wings, each channel extending substantially the entire length of the body and defining a fluid flow passage;

at least two securement barbs, at least one disposed at each end of the body, each barb having a barb root and a barb tip, the barb root securing the securement barb to the body, the securement barb extending generally radially outwardly from the body in cantilevered fashion from the barb root to the barb tip, the securement barb being angled relative to the longitudinal axis with the barb root being located nearer to the end of the body than the barb tip;

~~at least one~~ a conically tapered tip portion disposed at ~~an~~ each end of the body and distal to each barb; and

a lumen defined within the body, the lumen extending through the body between the two ends thereof and being constructed and arranged to accommodate a guide wire therein.

18. (Currently Amended) The stent according to claim 1, wherein each of the securement ~~barb barbs~~ tapers in width from the barb root to the barb tip thereof.

19. (Original) The stent according to claim 18, wherein the barb root extends circumferentially approximately half way around the body.

20. (Currently Amended) The stent according to claim 19, wherein each of the securement ~~barb barbs~~ has a generally teardrop shape.

21. (Original) The stent according to claim 2, wherein the stent is generally symmetric about a plane passing through a longitudinal center thereof and normal to the longitudinal axis of the body.

CARTER et al.
Serial No. 10/719,066
Attorney Dkt. No. 44472-306195

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22. (Original) The stent according to claim 1, wherein the wings each have a wing root and a wing edge and taper in width from the wing root to the wing edge thereof.

23. (Original) The stent according to claim 1, wherein the wings each have a wing root and a wing edge with essentially a constant thickness from the wing root to the wing edge thereof.

24. (Original) The stent according to claim 1, wherein the wings each have a wing root and a wing edge and the wing edges are rounded or blunted slightly.

25. (Currently Amended) The stent according to claim 1, wherein the body and the securement ~~barb~~ barbs comprise thermoplastic polyurethane elastomers.

26. (Original) The stent according to claim 1, wherein at least one of the ends of the body has a pigtail configuration.

27. (Previously Presented) A stent, comprising:
a body with a predetermined length defining a longitudinal axis and two ends, with a conical tapered tip portion being disposed at each end of the body;
a lumen defined within the body, the lumen extending through the body between the two ends thereof and being constructed and arranged to accommodate a guide wire therein;
a plurality of smooth-surfaced wings angularly spaced around the body and extending radially outwardly from the body and extending longitudinally along substantially the entire length thereof, wherein channels are formed between adjacent wings, each channel extending substantially the entire length of the body and defining a fluid flow passage; and
a securement barb disposed adjacent to each end of the body and extending from each of the conical tip portions, each securement barb having 1) a barb root securing the securement barb to the body and 2) a barb tip, with the securement barbs each tapering in width from the barb root to the barb tip thereof such that each securement barb has a generally teardrop shape, each securement barb extending generally radially outwardly from the body in cantilevered fashion

CARTER et al.
Serial No. 10/719,066
Attorney Dkt. No. 44472-306195

from the barb root to the barb tip and being disposed at an angle of less than or equal to about 90° relative to the longitudinal axis of the body, the securement barbs being angled in opposite directions with respect to each other, with the barb roots being located nearer to the ends of the body than the barb tips.

28. (Original) The stent according to claim 27, wherein the angle of each securement barb is less than or equal to about 75° relative to the longitudinal axis of the body.
29. (Original) The stent according to claim 27, wherein the angle of each securement barb is less than or equal to about 65° relative to the longitudinal axis of the body.
30. (Original) The stent according to claim 27, wherein the wings are disposed substantially parallel to one another.
31. (Original) The stent according to claim 27, wherein the wings extend linearly along the body.
32. (Original) The stent according to claim 27, wherein the wings extend helically along the body.
33. (Original) The stent according to claim 27, wherein the body and the wings comprise thermoplastic polyurethane elastomers.
34. (Previously Presented) The stent according to claim 1, wherein the stent is a biliary stent.
35. (Previously Presented) The stent according to claim 1, wherein the stent is a venous stent.

CARTER et al.
Serial No. 10/719,066
Attorney Dkt. No. 44472-306195

36. (Previously Presented) The stent according to claim 1, wherein the stent is an arterial stent.
37. (Previously Presented) The stent according to claim 27, wherein the stent is a biliary stent.
38. (Previously Presented) The stent according to claim 27, wherein the stent is a venous stent.
39. (Previously Presented) The stent according to claim 27, wherein the stent is an arterial stent.